



AVOX Systems

Assemblies
Cylinder, Regulator, Valve

Altitude Compensating Oxygen Regulator

P/N 803333-01



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The AVOX Systems 803333-01 Altitude Compensating Oxygen Regulator provides a highly accurate way to ensure delivery of the required amount of oxygen to face masks in constant flow aircraft oxygen systems at altitudes from sea level to 40,000 ft.

Sensing each slight variation in cabin altitude, a built-in aneroid triggers the required increase in oxygen flow for higher altitudes and the required decrease for lower altitudes.

This regulator is normally paired with a 50-80 psig pressure reducer.

Outstanding Features

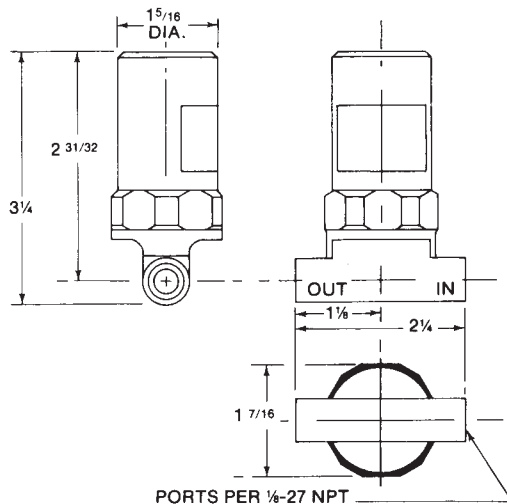
- Effective from sea level to 40,000 ft.
- Ambient temperature range from -65°F to +160°F
- Weight saving, space saving design features maximum weight of only 0.4 lbs.





Specifications	
Model:	803333-01
Service Medium:	Aviator's Breathing Oxygen per MIL-PRF-27210, Type 1
Inlet Operating Pressure:	50-80 psig
Altitude Operating Range:	Sea Level to 40,000 ft.
Ambient Temperature Range:	-65°F to +160°F
Inlet/Outlet Ports:	Per 1/8-27 NPT
Weight:	0.4 lbs. max.
Flow Requirements:	FAR 23.1443 to 30,000 ft. when used with AVOX 802039-03 Plug-In FAR 23.1443 to 40,000 ft. when used with AVOX 365-30-3 Valve Assembly

Outline Dimensions



Pressure vs. Altitude

Altitude Feet Above Sea Level	Outlet Pressure PSIA
0	22.0 ± 3.5
10,000	22.0 ± 3.5
14,000	26.2 ± 3.5
17,000	29.2 ± 3.5
20,000	31.2 ± 3.5
30,000	38.2 ± 3.5
40,000	43.0 +3.5 / -2.5

WARNING

IMPROPER USE OR MAINTENANCE OF THIS DEVICE MAY RESULT IN INJURY OR DEATH.

ANY SERVICE OR OVERHAUL SHALL BE DONE ONLY BY THOSE FACILITIES EXPERIENCED IN, OR BY PERSONNEL KNOWLEDGEABLE IN, HIGH PRESSURE AVIATION OXYGEN.

CONTACT AVOX SYSTEMS OR ITS DISTRIBUTORS FOR NAMES OF AUTHORIZED SERVICE CENTERS. PERSONNEL SHOULD RECEIVE PROPER TRAINING PRIOR TO USING THIS EQUIPMENT. UNIT SHALL BE USED WITH AVIATOR'S BREATHING OXYGEN PER MIL-PRF-27210.